

DECLARATION AND POWER OF ATTORNEY

I, Alan R. Stockner, declare that I am a citizen of the United States of America, residing at Metamora, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME
the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to be material to patentability as defined in §1.56. I further declare that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns.

We hereby appoint Michael Huber, Reg. No. 44,783, telephone (309) 675-4923, J. Wesley Blumenshine, Patent Office Reg. No. 32,399, telephone (309) 675-5537, J. W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, Dennis C. Skarvan, Patent Office Reg. No. 35,360, telephone (309) 675-6060, Michael B. McNeil, Patent Office Reg. No. 35,949, telephone (812) 333-5355, our attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Michael B. McNeil, Liell & McNeil, P.O. Box 2417, 511 S. Madison Street, Bloomington, Indiana, 47402.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Alan R. Stockner 9 Oct 2003
ALAN R. STOCKNER Date
15 WOODFORD WAY
METAMORA, IL 61548-9220

DECLARATION AND POWER OF ATTORNEY

I, Norval J. Wiemken, declare that I am a citizen of the United States of America, residing at Dwight, Illinois, and that I believe I am one of the original, first, and joint inventors together with Alan R. Stockner, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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Norval J. Wiemken 9-16-03
NORVAL J. WIEMKEN Date
123 E. SOUTH STREET
DWIGHT, IL 60420-1328

DECLARATION AND POWER OF ATTORNEY

I, Scott F. Shafer, declare that I am a citizen of the United States of America, residing at Morton, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Alan R. Stockner, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

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Scott F. Shafer 9/24/03
SCOTT F. SHAFER Date
248 N. KANSAS AVE.
MORTON, IL 61550-2218

DECLARATION AND POWER OF ATTORNEY

I, Gene Slinkard, declare that I am a citizen of the United States of America, residing at Pontiac, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Alan R. Stockner of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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Gene R Slinkard 9/29/2003
GENE R. SLINKARD Date
714 CIMMERON DR.
PONTIAC, IL 61764

DECLARATION AND POWER OF ATTORNEY

I, Mark S. Cavanagh, declare that I am a citizen of the United States of America, residing at Bloomington, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Alan R. Stockner and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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Mark S Cavanagh 10-14-03
MARK S. CAVANAGH Date
1909 REDBUD LANE
BLOOMINGTON, IL 61704-2773

DECLARATION AND POWER OF ATTORNEY

I, Ye Tian, declare that I am a citizen of the Peoples Republic of China, residing at Bloomington, Illinois, and that I believe I am one of the original, first, and joint inventors together with Norval J. Weimken, Alan R. Stockner, Scott F. Shafer, Mark S. Cavanagh and Gene Slinkard of the subject matter which is claimed and for which a patent is sought on the invention entitled:

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME
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We hereby appoint Michael Huber, Reg. No. 44,783, telephone (309) 675-4923, J. Wesley Blumenshine, Patent Office Reg. No. 32,399, telephone (309) 675-5537, J. W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, Dennis C. Skarvan, Patent Office Reg. No. 35,360, telephone (309) 675-6060, Michael B. McNeil, Patent Office Reg. No. 35,949, telephone (812) 333-5355, our attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Michael B. McNeil, Liell & McNeil, P.O. Box 2417, 511 S. Madison Street, Bloomington, Indiana, 47402.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


YE TIAN
25 SWAN LAKE
BLOOMINGTON, IL 61704-1277

12/2/03
Date

ASSIGNMENT

WHEREAS, Alan R. Stockner, residing at Metamora, Illinois, hereinafter referred to ASSESSOR has invented together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

for which ASSIGNEE is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNEE on

10-9-03 _____; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Alan R. Stocker

9 Oct. 2003

ALAN R. STOCKNER

Date

IN WITNESS OF the execution hereof by ALAN R. STOCKNER we have hereunto set our hands.

John J. Hess 10/9/03 Denis E. Day 10/9/03
Witness (1) Date Witness (2) Date
Address: _____
1292 N Woodland Knolls Ln 1924 W. TETON
Metamora IL 61548 PEORIA IL 61614
01-568

ASSIGNMENT

WHEREAS, Mark S. Cavanagh, residing at Bloomington, Illinois, hereinafter referred to as ASSIGNOR has invented together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Alan R. Stockner and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on

10-14-03; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Mark S. Cavanagh 10-14-03
MARK S. CAVANAGH Date

IN WITNESS OF the execution hereof by MARK S. CAVANAGH we have hereunto set our hands.

<u>Kenneth J. Knapf</u> <u>10/14/03</u> Witness (1) Address: <u>1431 COUNTY ROAD</u> <u>1700 E</u> <u>ROANOKE, IL 61561</u>	<u>L. C. S.</u> <u>10/14/03</u> Witness (2) Address: <u>40 Lakeview Dr.</u> <u>Fairbury, IL 61739</u>
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ASSIGNMENT

WHEREAS, Norval J. Wiemken, residing at Dwight, Illinois, hereinafter referred to ASSESSOR has invented together with Alan R. Stockner, Ye Tian, Scott F. Shafer, Mark S. Cavanagh and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

for which ASSESSOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSESSOR on

9-16-03; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSESSOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSESSOR;

1. ASSESSOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSESSOR has the full right to do so.
2. At the request and expense of ASSIGNEE, ASSESSOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.
3. ASSESSOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.
4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSESSOR, ASSESSOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSESSOR has executed this instrument.

Norval J. Wiemken
NORVAL J. WIEMKEN

9-16-03
Date

IN WITNESS OF the execution hereof by NORVAL J. WIEMKEN we have hereunto set our hands.

Jeffrey Delayva 9/16/03
Witness (1)
Address:

55 Harmony Lane
Romeoville IL 60446

Norval J. Kraft 9/16/03
Witness (2)
Address:

1431 County Road 170DE
Roanoke, IL 61541

ASSIGNMENT

WHEREAS, Scott F. Shafer, residing at Morton, Illinois, hereinafter referred to ASSESSOR has invented together with Norval J. Weimken, Ye Tian, Alan R. Stockner, Mark S. Cavanagh and Gene R. Slinkard a new and useful

THREE WAY VALVE AND ELECTRO-HYDRAULIC ACTUATOR USING SAME

for which ASSIGNEE is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNEE on

04-24-03; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc.

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

SCOTT E. SHAFFER

29/24/05

Date

IN WITNESS OF the execution hereof by SCOTT F. SHAFER we have hereunto set our hands.

Witness (1) Date Witness (2) Date
Address: 1123 N. Wisconsin Rd. Address: 1222 1/2 Westcrest Dr. Apt 310
Metamora, IL 61548 Darien, IL 61525

ASSIGNMENT

WHEREAS, Gene R. Slinkard, residing at Pontiac, Illinois, hereinafter referred to
ASSIGNOR has invented together with Norval J. Weimken, Ye Tian, Scott F. Shafer, Mark S.
Cavanagh and Alan R. Stockner a new and useful

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Declaration and Power of Attorney executed by ASSIGNOR on

9-29-03; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at
Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is
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to Caterpillar Inc.
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other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal
representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

 9/29/2003
GENE R. SLINKARD Date

IN WITNESS OF the execution hereof by GENE R. SLINKARD we have hereunto set our hands.

<u>Ye Tian</u>	<u>9/29/03</u>	<u>Mark</u>	<u>9/29/03</u>
Witness (1)	Date	Witness (2)	Date
Address: _____	Address: _____	Address: _____	Address: _____
<u>1607 46th Park Rd. #1B</u>	<u>1217 RIVIERA DR</u>	<u>BLOOMINGTON, IL 61701</u>	<u>BLOOMINGTON, IL 61701</u>
<u>Pontiac, IL 61764</u>			